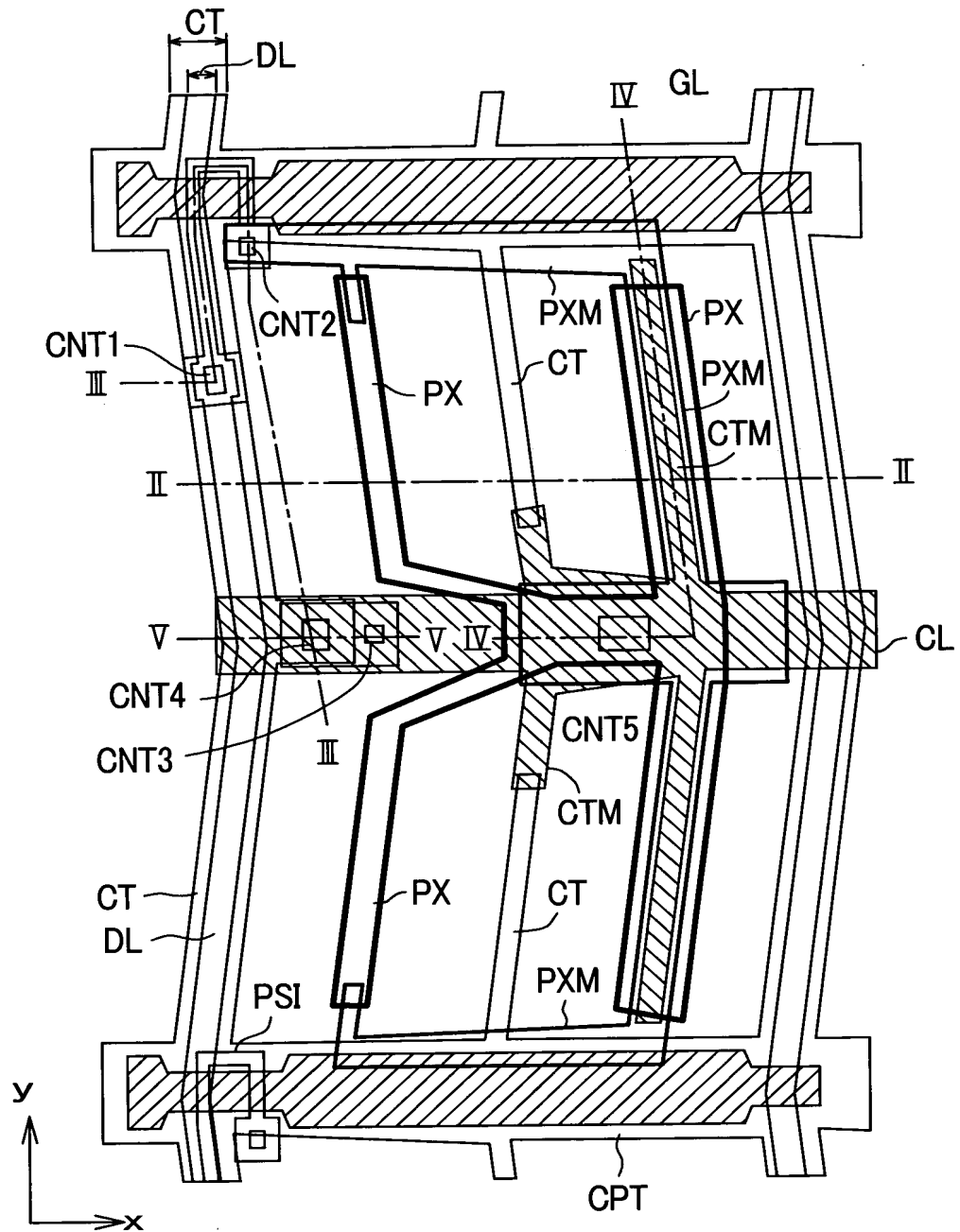
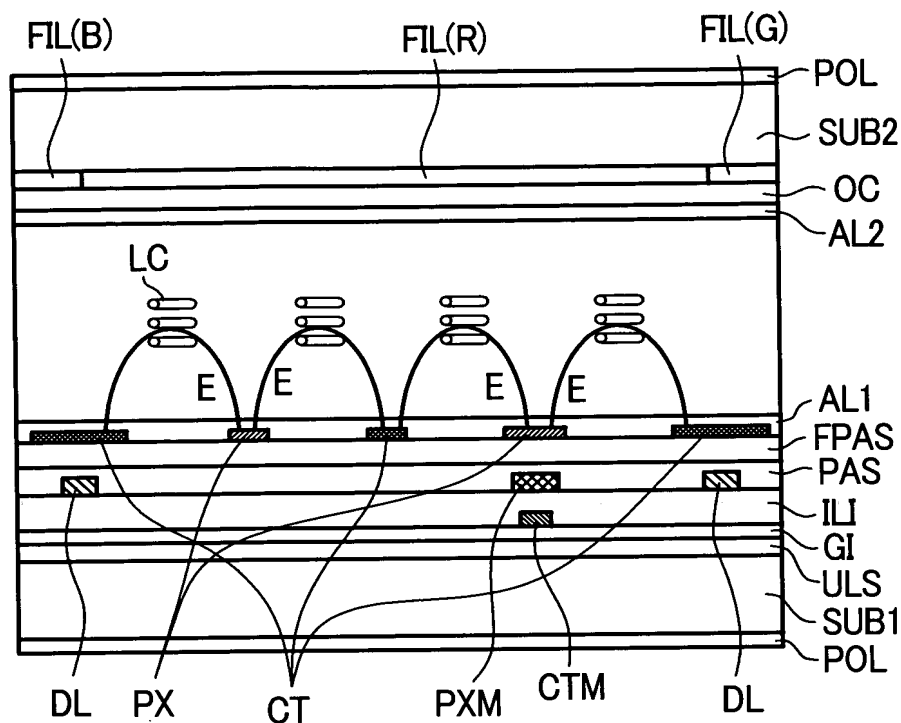


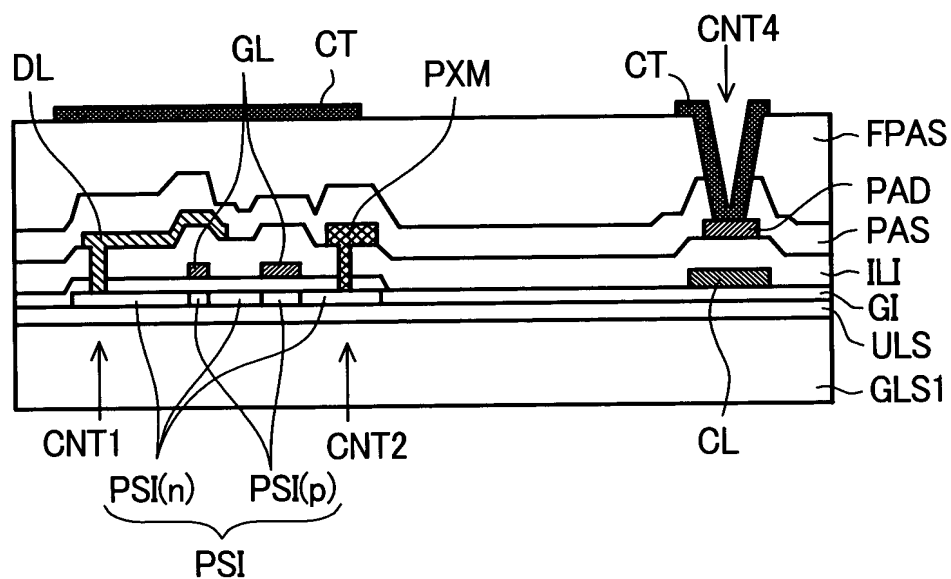
*FIG. 1*



**FIG. 2**



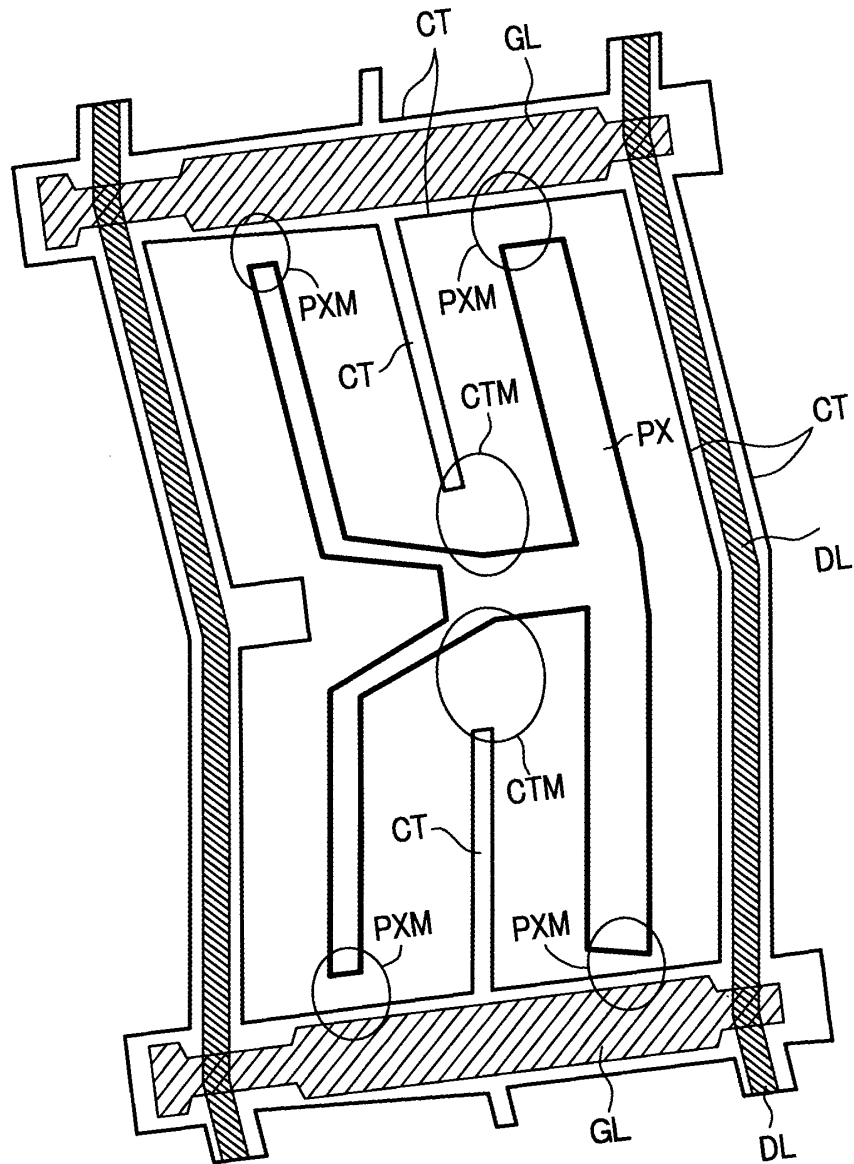
**FIG. 3**



A cross-sectional view of a semiconductor device. The structure includes a substrate with layers labeled GL, CTM, and PXM. Above these are layers labeled ULS, GI, ILI, PAS, and FPAS. A central layer is labeled CNT5, with an arrow pointing to it. Other labels include CT, PX, and GLS1.

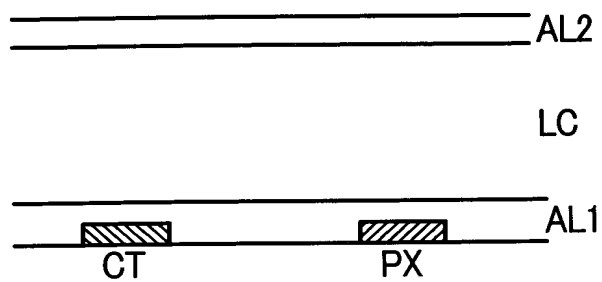
Diagram illustrating a cross-sectional view of a semiconductor device structure. The structure features a trench (CNT4) with a V-shaped bottom. The top surface is labeled CT. The bottom surface is labeled PAD. The side walls are labeled DL and CL. The device is built on a substrate with layers labeled FPAS, PAS, ILI, GI, ULS, and GLS1.

**FIG. 6**

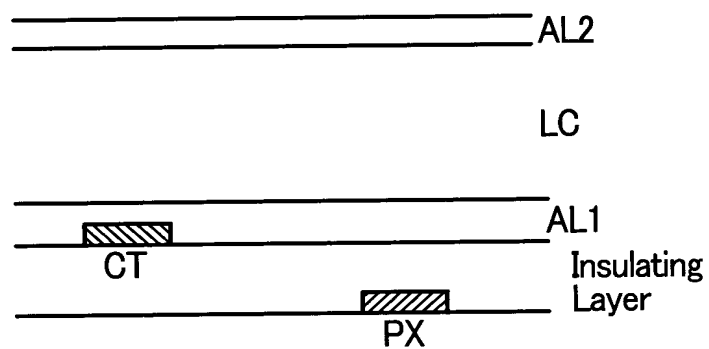




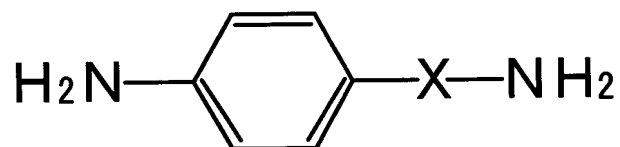
*FIG. 8*



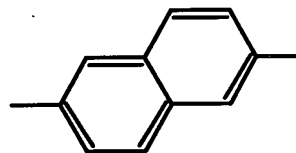
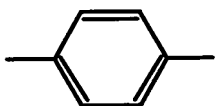
*FIG. 9*



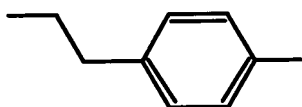
*FIG. 10*



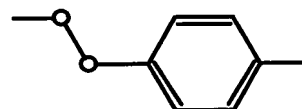
*FIG. 11A*    *FIG. 11B*    *FIG. 11C*



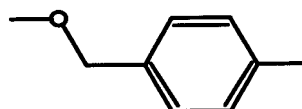
*FIG. 11D*



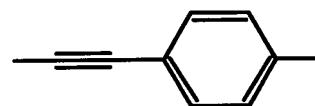
*FIG. 11E*



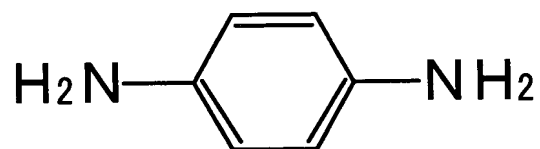
*FIG. 11F*



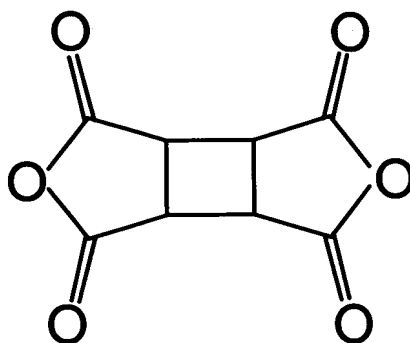
*FIG. 11G*



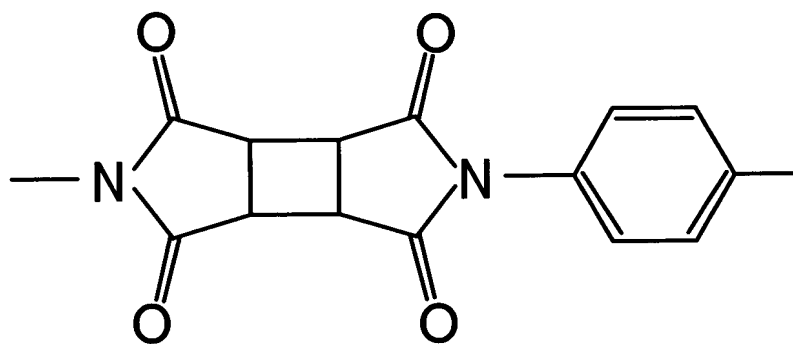
*FIG. 12A*



*FIG. 12B*



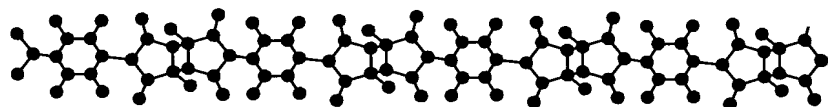
*FIG. 13*





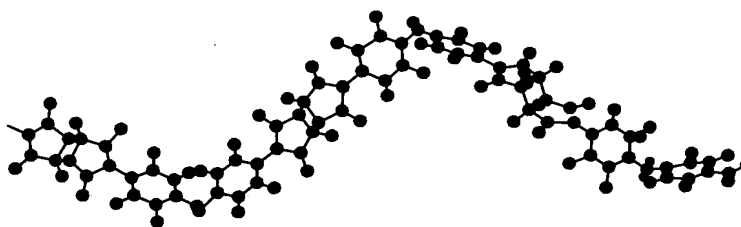
*FIG. 14A*

Orientation film A



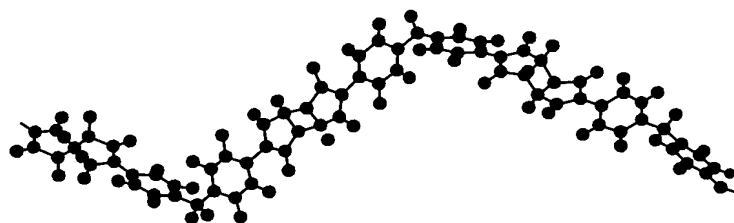
*FIG. 14B*

Orientation film B

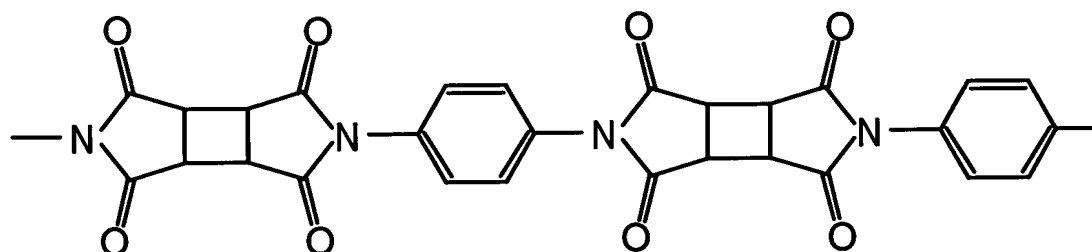


*FIG. 14C*

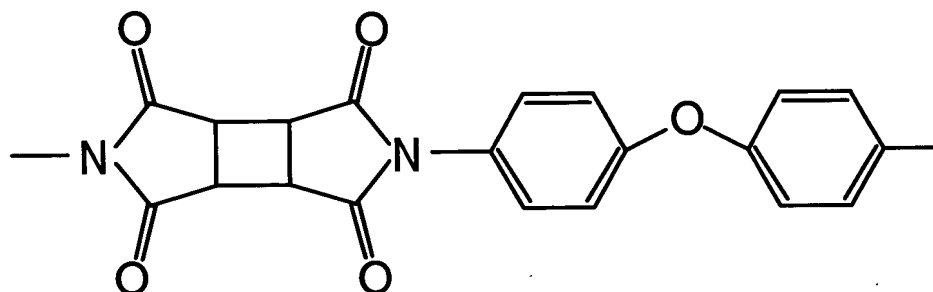
Orientation film C



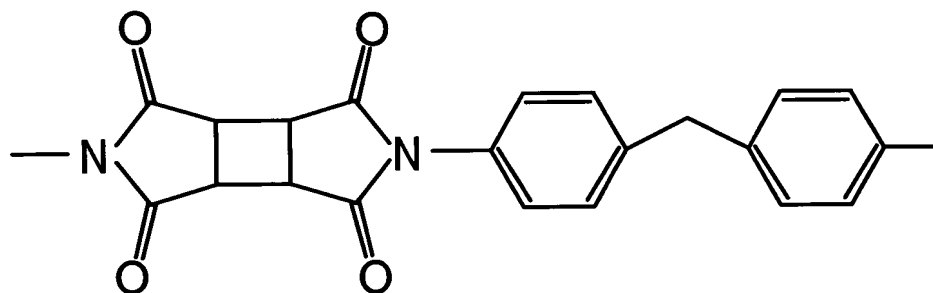
*FIG. 15*



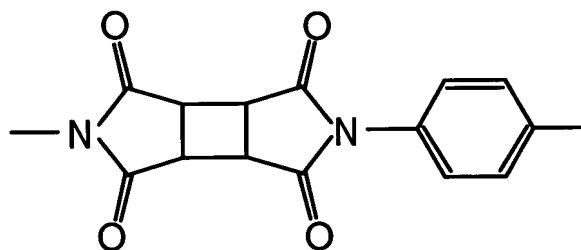
*FIG. 16A*



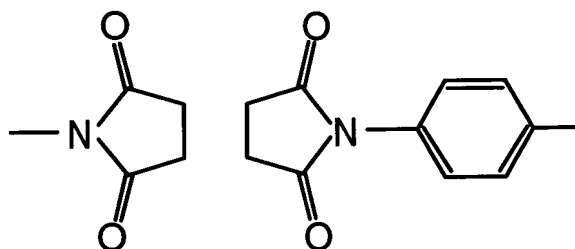
*FIG. 16B*



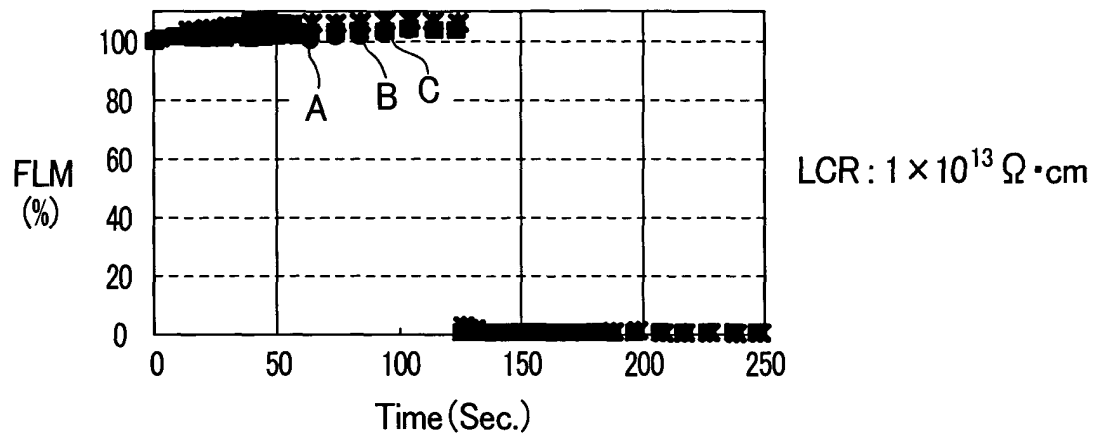
*FIG. 18A*



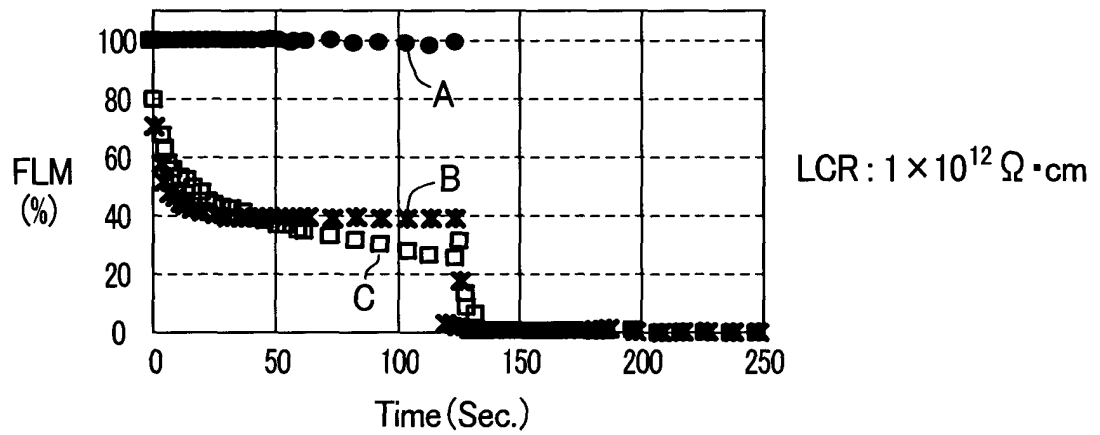
*FIG. 18B*



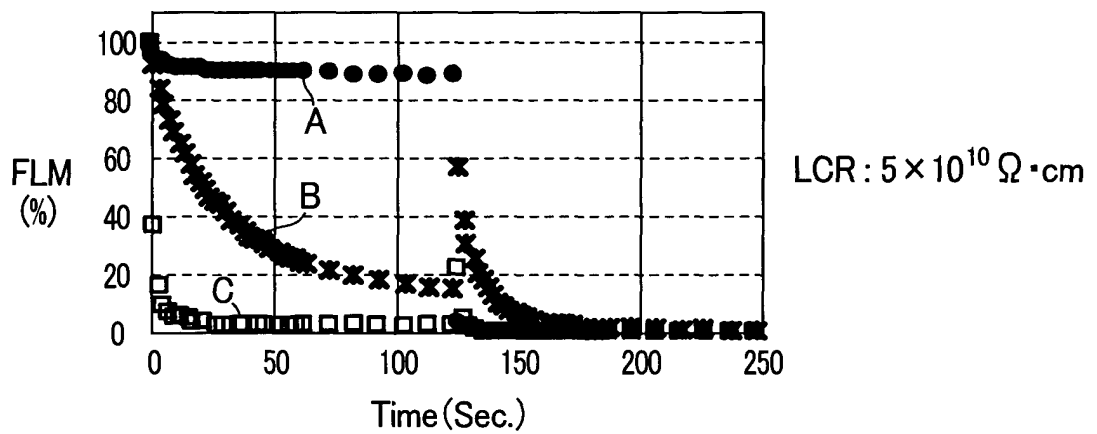
*FIG. 17A*



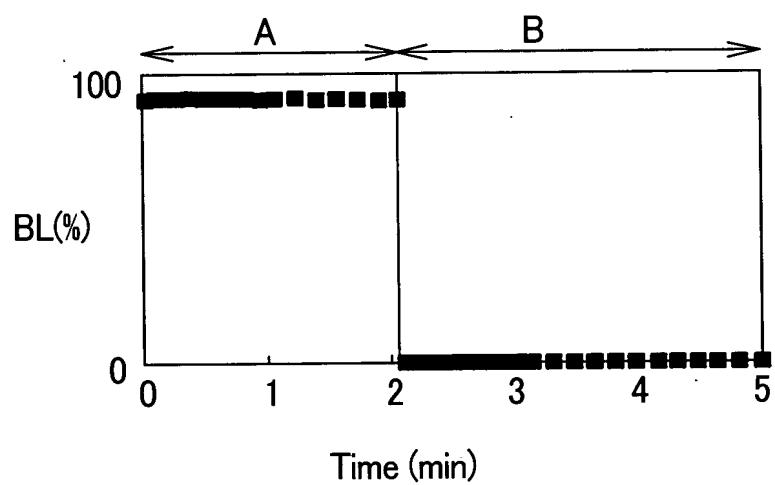
*FIG. 17B*



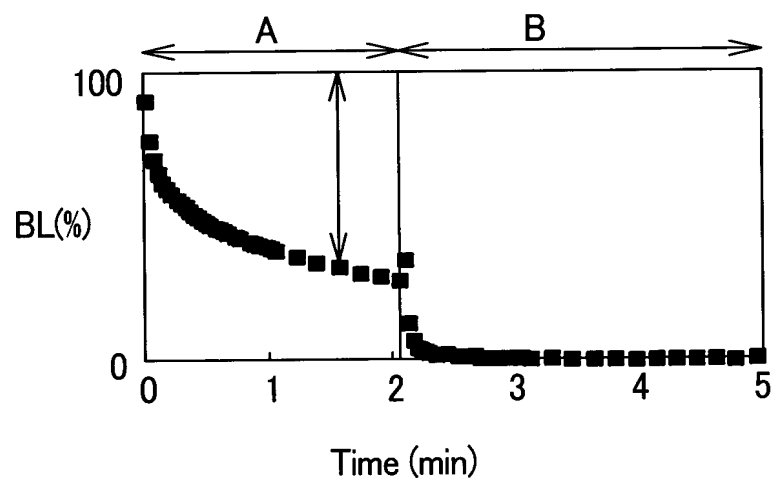
*FIG. 17C*



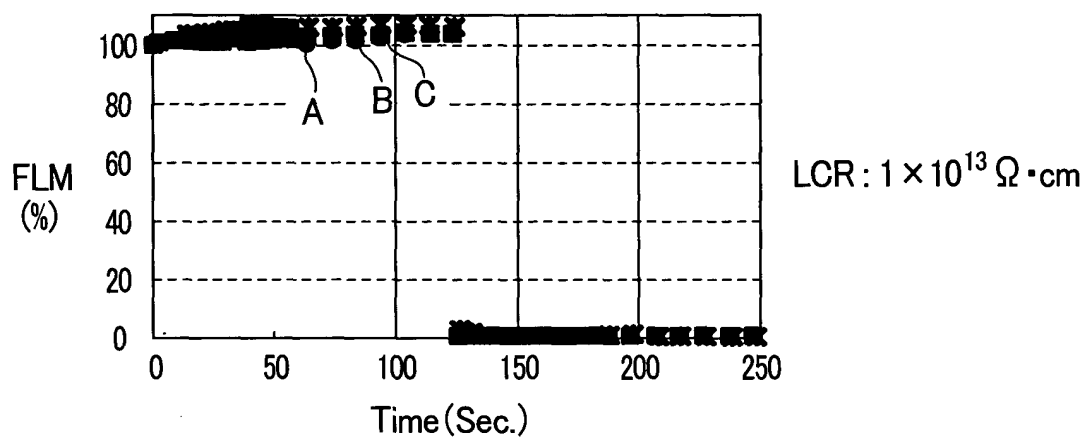
*FIG. 19A*



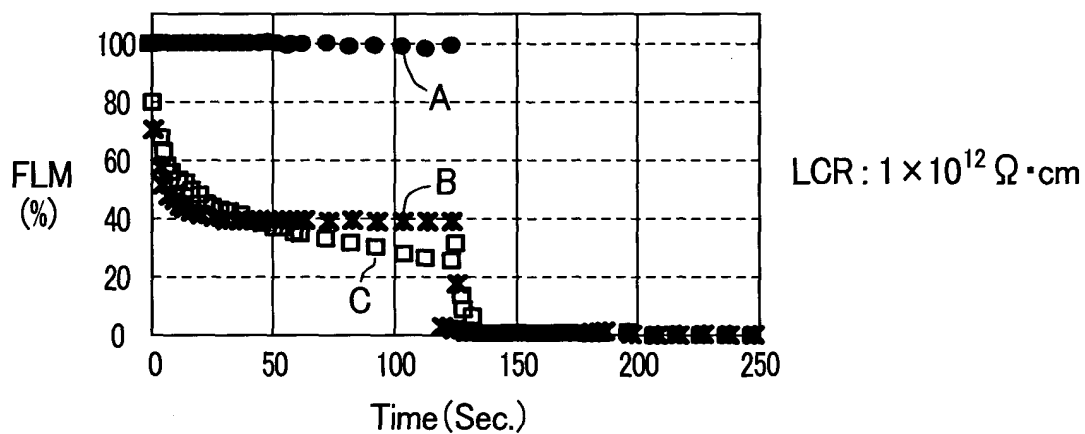
*FIG. 19B*



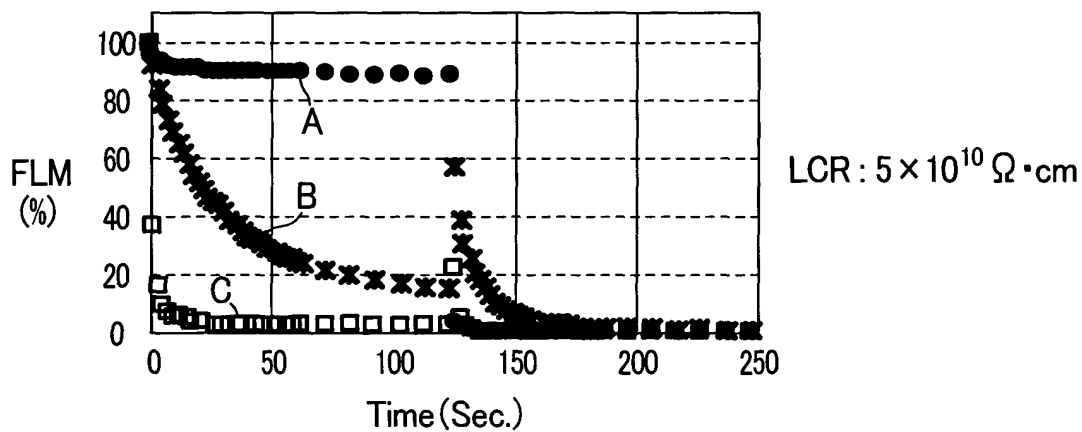
*FIG. 20A*



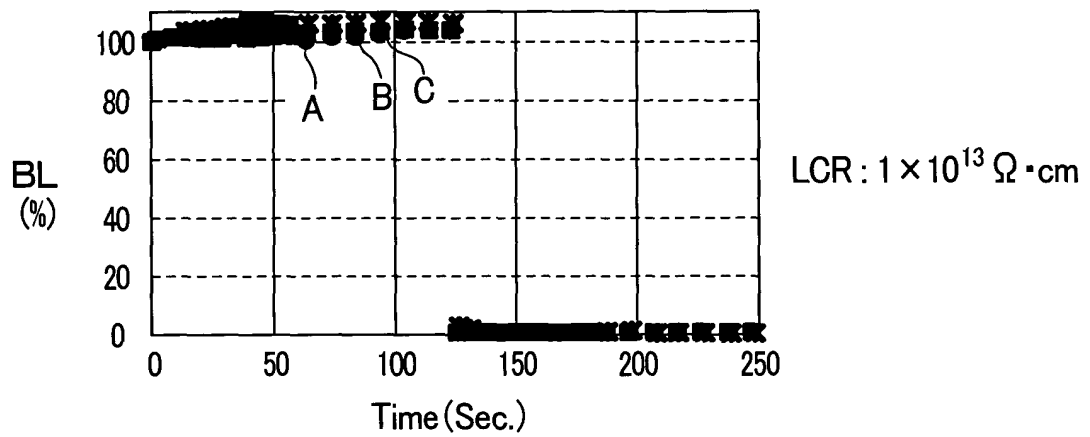
*FIG. 20B*



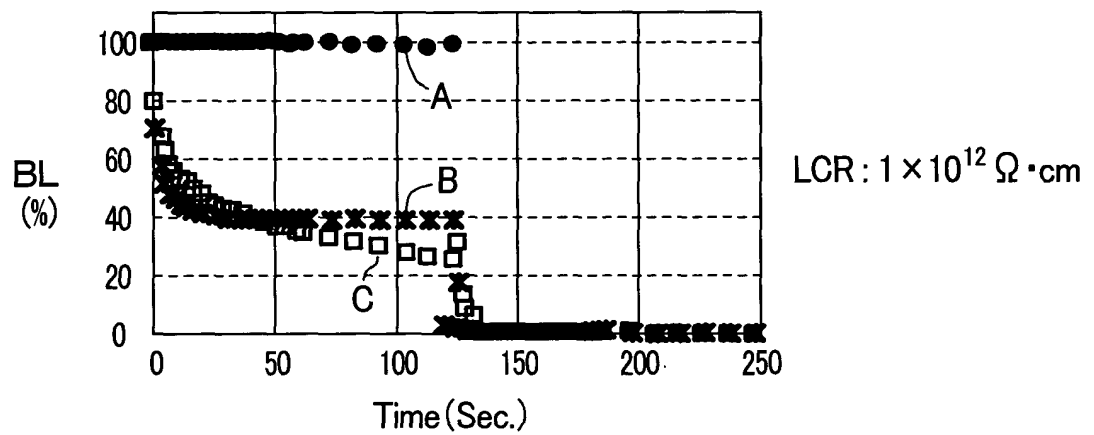
*FIG. 20C*



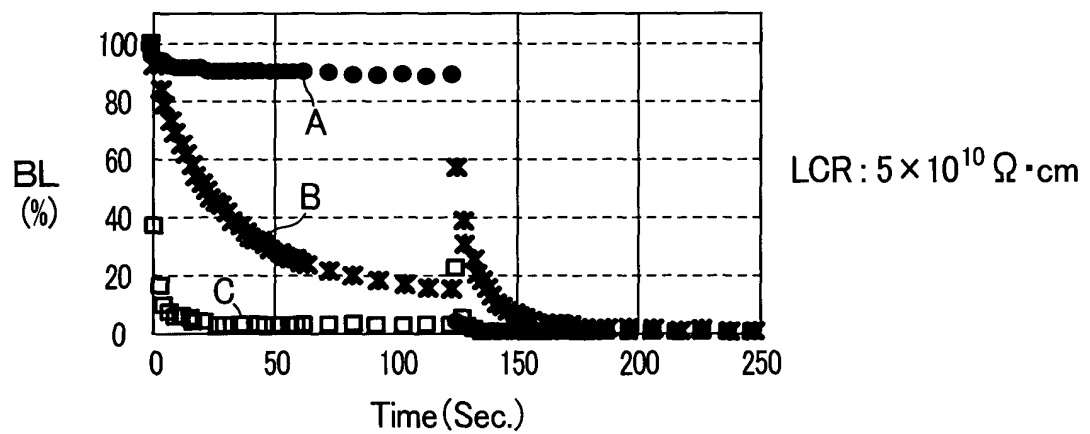
*FIG. 21A*



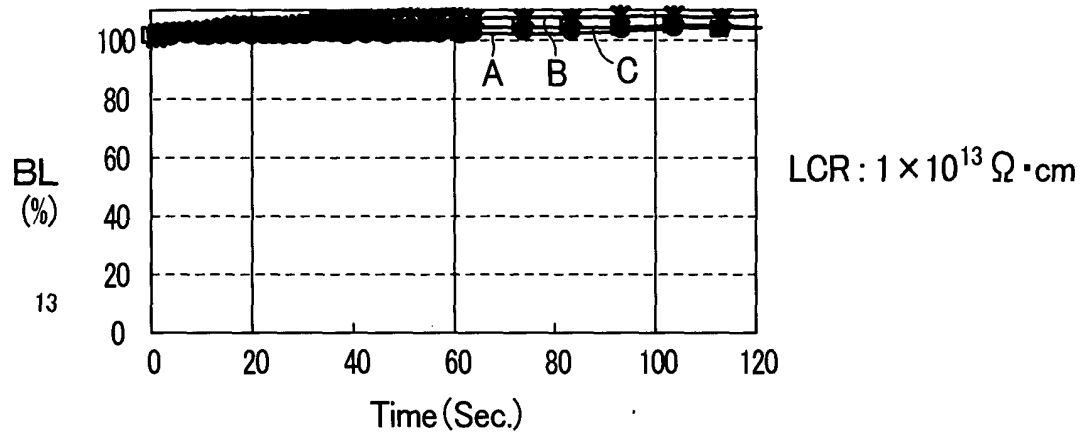
*FIG. 21B*



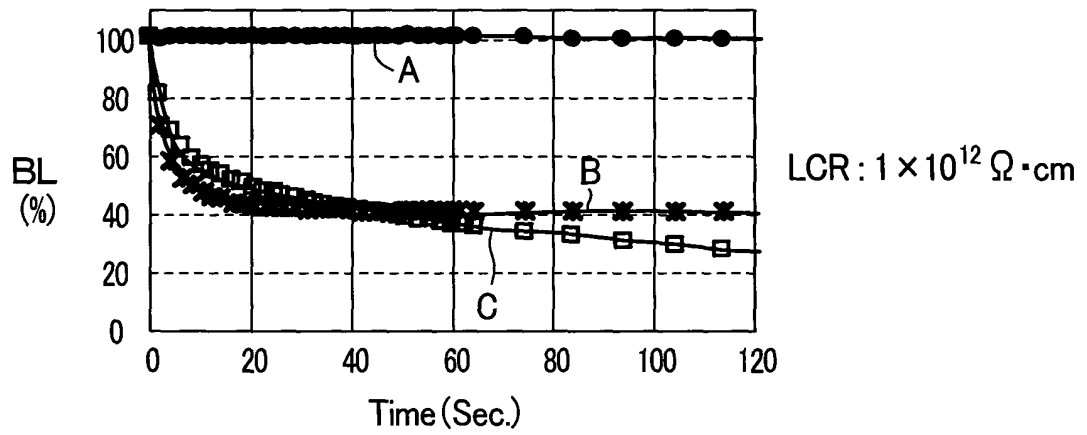
*FIG. 21C*



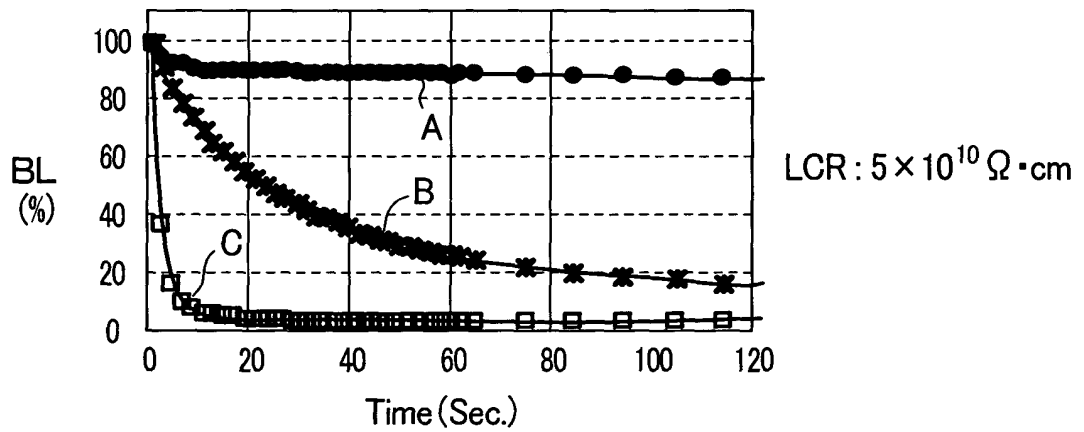
*FIG. 22A*



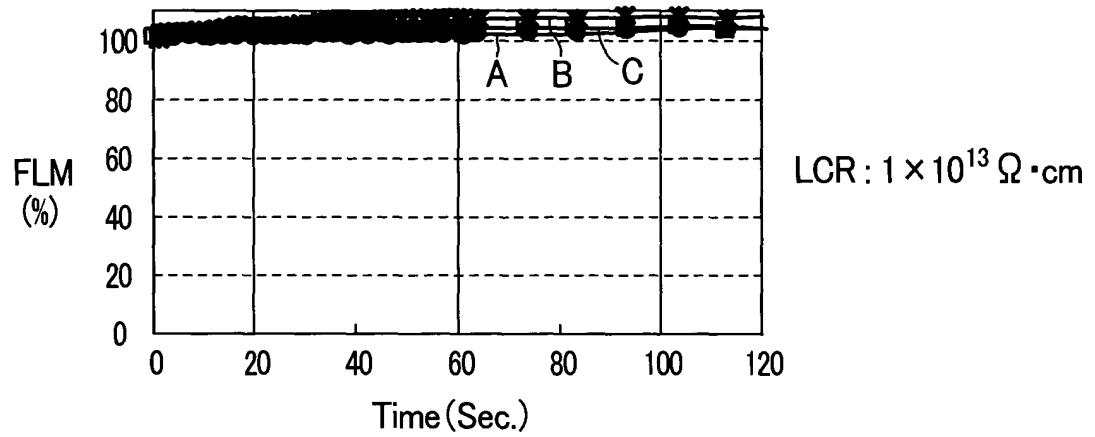
*FIG. 22B*



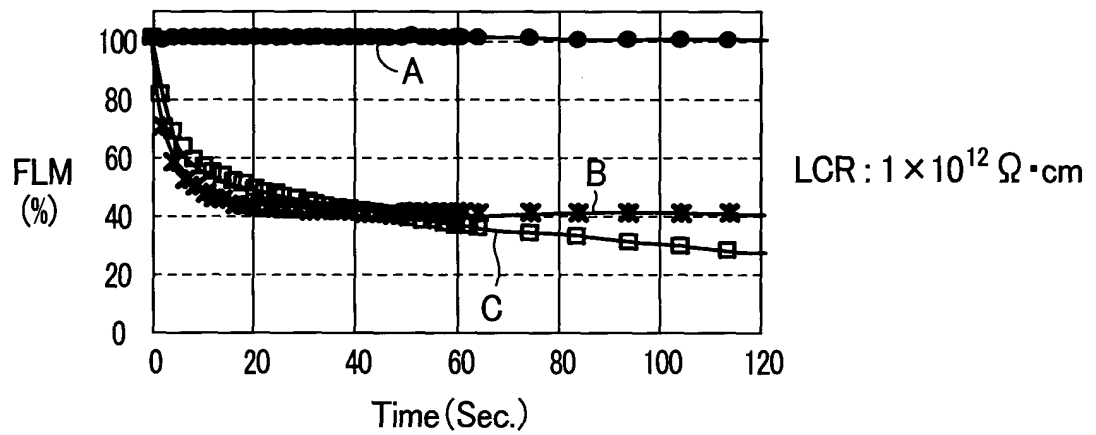
*FIG. 22C*



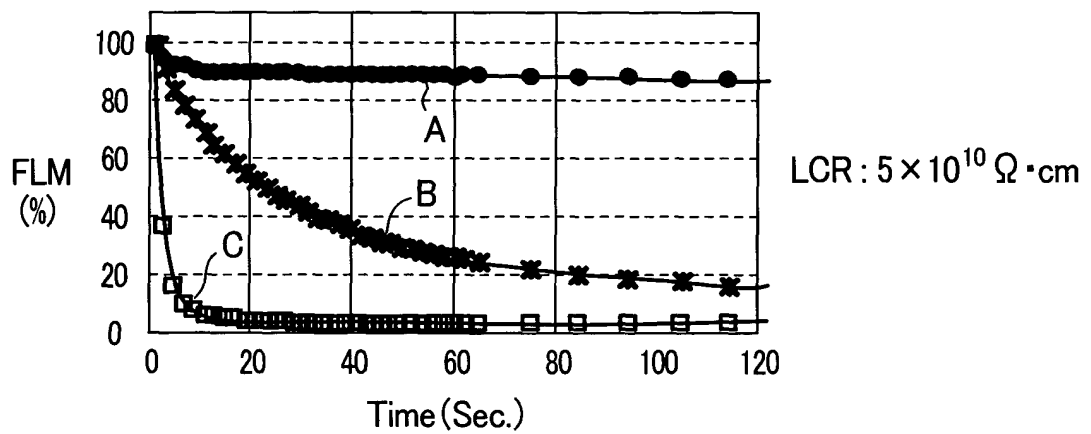
*FIG. 23A*



*FIG. 23B*

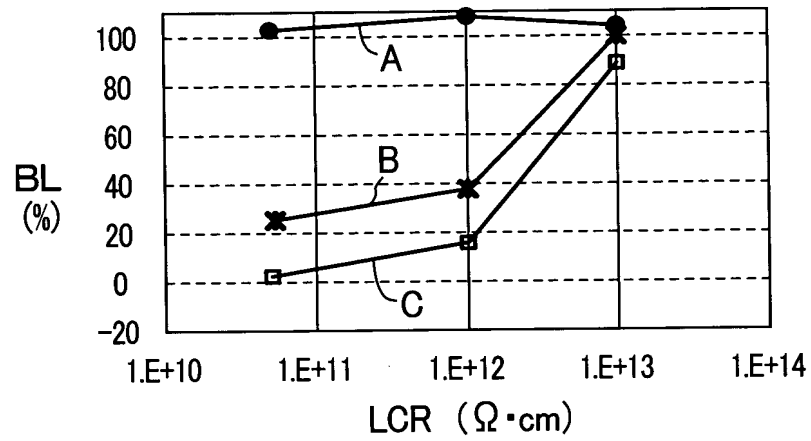


*FIG. 23C*

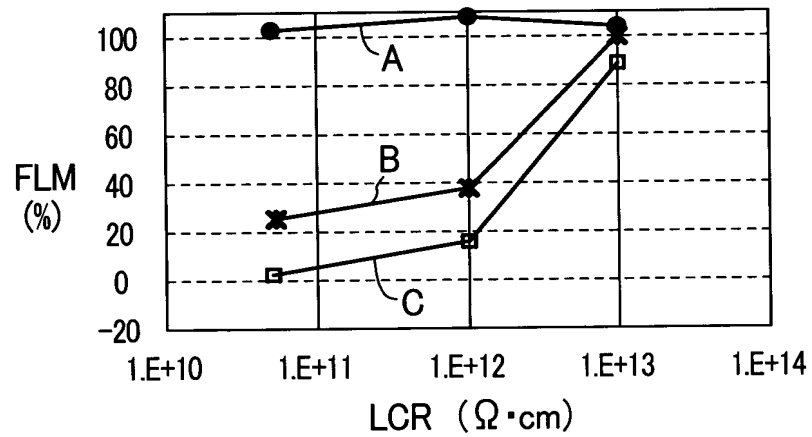




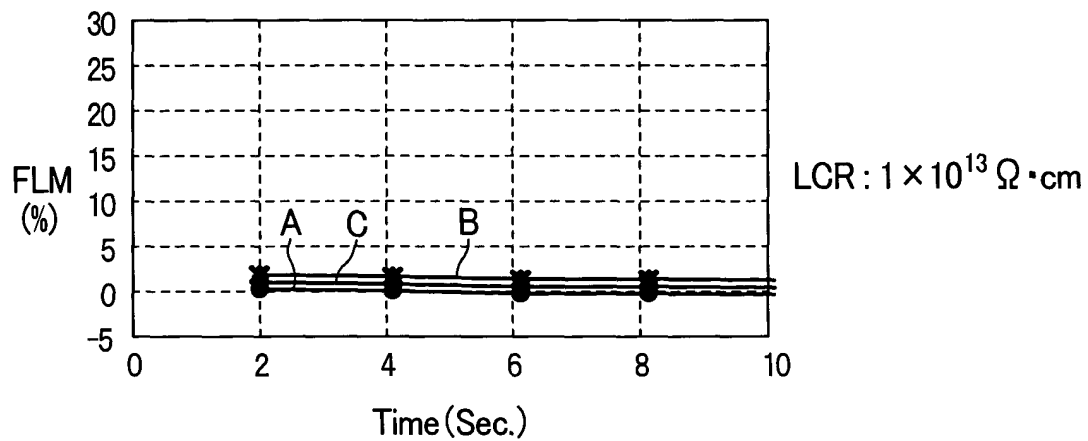
*FIG. 24*



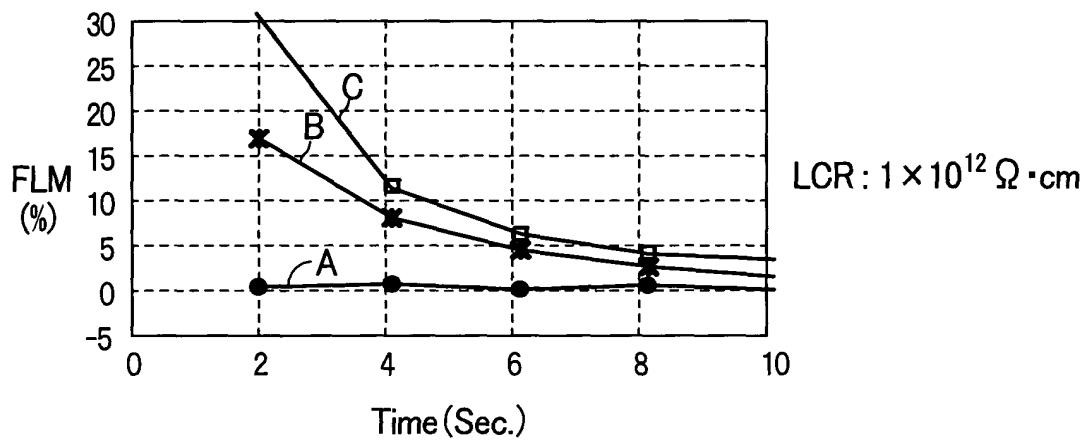
*FIG. 25*



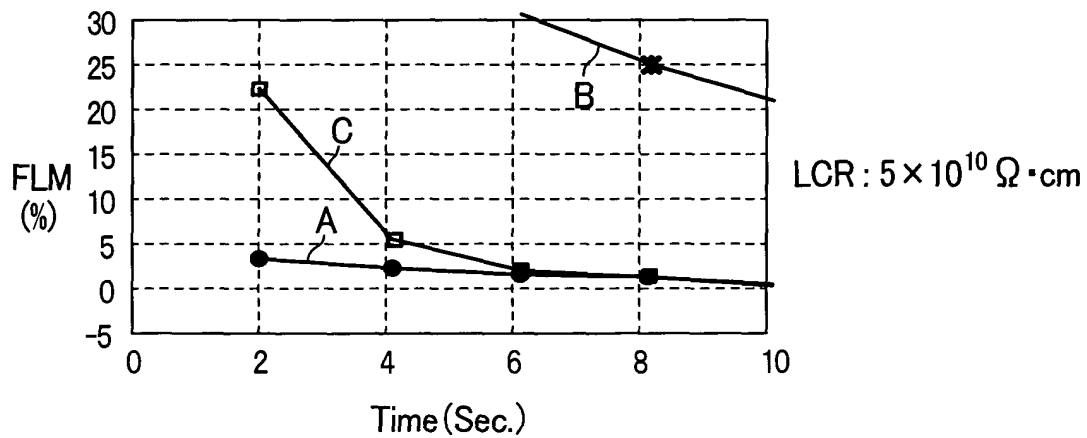
**FIG. 26A**



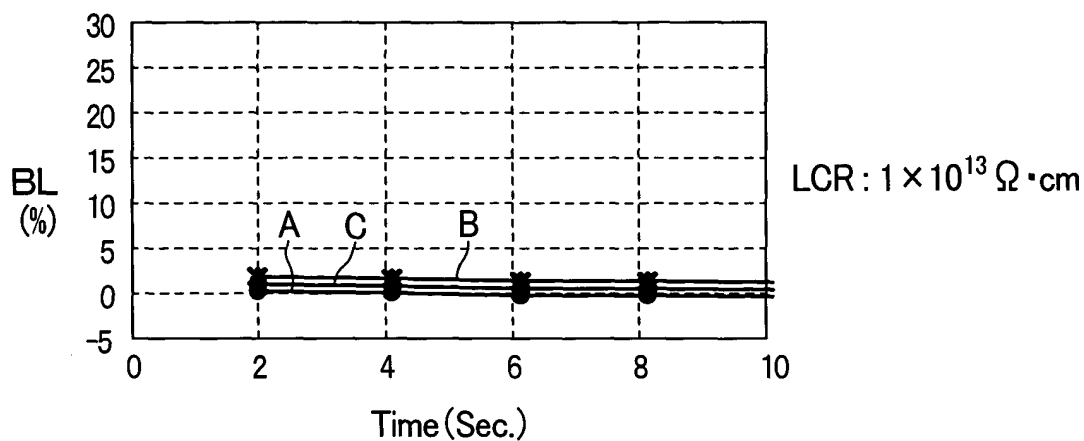
**FIG. 26B**



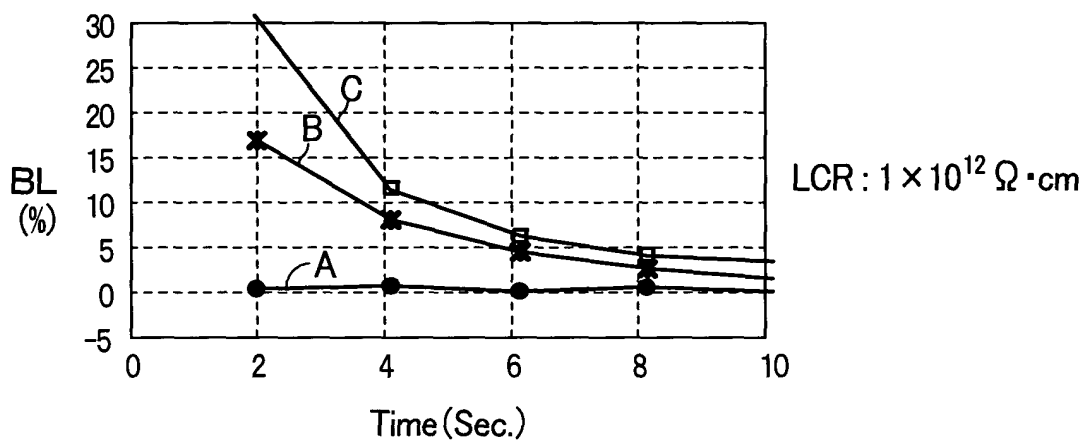
**FIG. 26C**



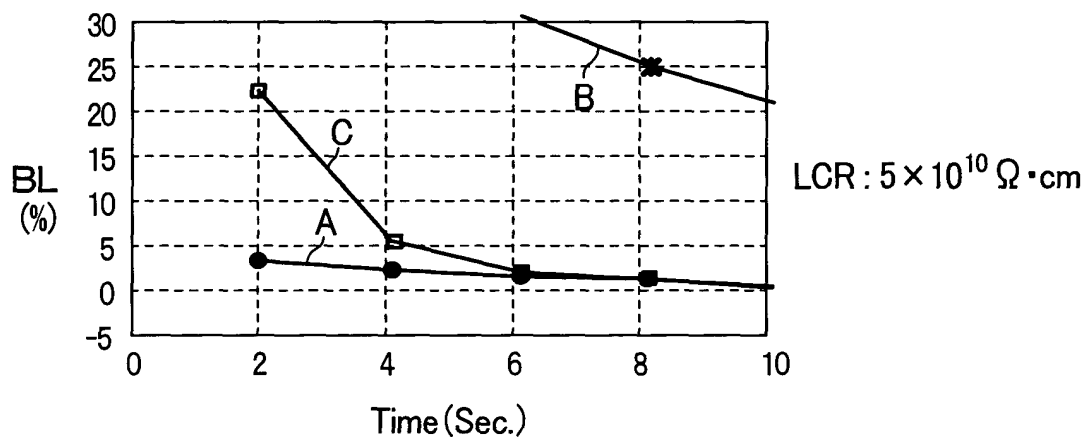
**FIG. 27A**



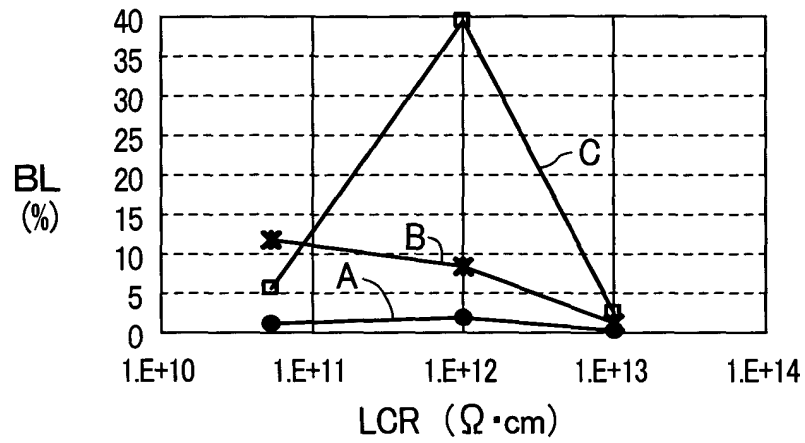
**FIG. 27B**



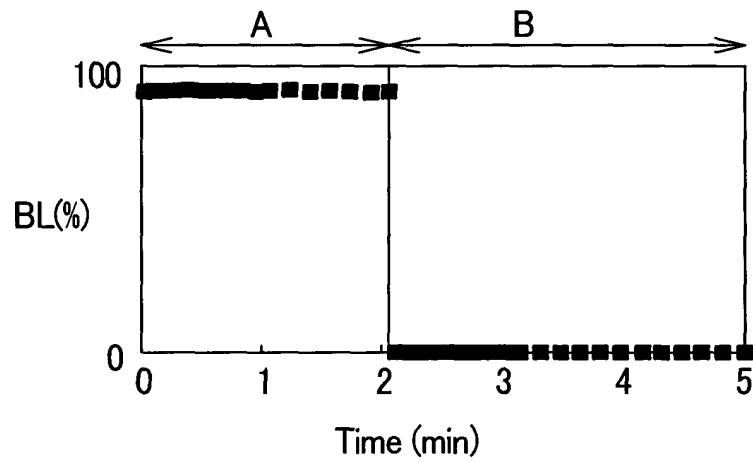
**FIG. 27C**



*FIG. 28*



*FIG. 29*



*FIG. 30*

